

# Cited Document 3

## DIAPHRAGM DEVICE AND OPTICAL EQUIPMENT USING THE SAME

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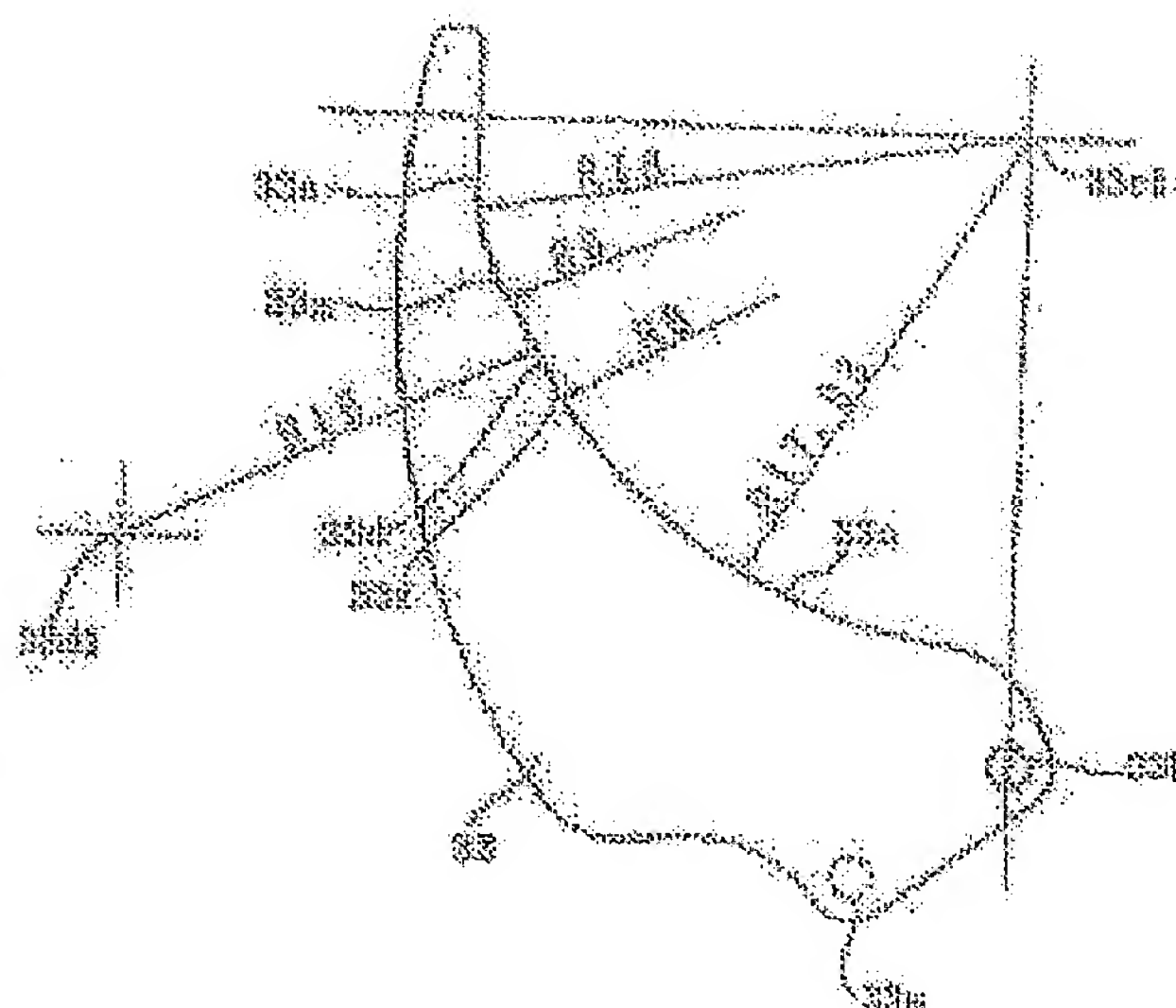
- European:

Application number: JP20010122733 20010420

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### Abstract of JP 2002318403 (A)

**PROBLEM TO BE SOLVED:** To obtain a diaphragm device realizing constitution capable of attaining the nearly circular shape of a diaphragm aperture without costing much to correct a molding die to the utmost, and optical equipment using the diaphragm device. **SOLUTION:** In this diaphragm device, a plurality of diaphragm blades cooperate with each other, whereby the diameter of the diaphragm aperture formed by the inner edge parts of a plurality of diaphragm blades is changed so as to adjust the quantity of photographing light. In the device, the inner edge part of the diaphragm blade participating in forming the diaphragm aperture has at least five parts, that is, a base inner edge part formed so that its diameter may be nearly the same as the diaphragm open aperture, a projection circular-arc part formed so that the center of curvature is positioned on the outside of the diameter of the base inner edge part, a leading inner edge part formed so that its radius of curvature may be larger than that of the base inner edge part nearly coaxially to the center axis forming the base inner edge part, a 1st circular-arc part smoothly linking the base inner edge part with the projection circular-arc part and a 2nd circular-arc part smoothly linking the leading inner edge part with the projection circular-arc part.



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